## What is claimed is:

1. A liquid crystal display device including a liquid crystal display panel provided with thin film transistors driven with control signals and a driving voltage applied from a host system, said device comprising:

a timing controller having an input terminal for receiving the control signals transmitted from the host system and having an output terminal;

a frequency detector connected to any one of the input terminal or the output terminal of the timing controller to detect the transmitted control signals;

compensation voltage setting means for compensating the driving voltage in response to the control signals detected by the frequency detector so as to adjust a charge time of the thin film transistors; and

a digital to digital converter for generating a compensation voltage set by the compensation voltage setting means to deliver the compensation voltage to the liquid crystal display panel.

- 2. The liquid crystal display device as claimed in claim 1, wherein said compensation voltage is any one of a gate high voltage and a common voltage of the thin film transistors.
- 3. The liquid crystal display device as claimed in claim 1, wherein said compensation voltage includes a gate high voltage and a common voltage of the thin film transistor.
- 4. A method of controlling a liquid crystal display device including a liquid crystal display panel provided with thin film transistors driven with control signals and a driving voltage applied from a host system, said method comprising:

detecting the control signals from any one of an input terminal and an output terminal of a timing controller receiving the control signals from the host system;

setting a compensation voltage for compensating the driving voltage in response to the detected control signals so as to adjust a charge time of the thin film transistors; and generating the set compensation voltage to deliver it to the liquid crystal display panel.

5. The method as claimed in claim 4, wherein said compensation voltage is any one

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of a gate high voltage and a common voltage of the thin film transistor.

- 6. The method as claimed in claim 4, wherein said compensation voltage includes a gate high voltage and a common voltage of the thin film transistor.
  - 7. A liquid crystal display (LCD) device, comprising: an LCD panel including,
  - a plurality of pixels arranged in a matrix, each pixel having a corresponding switching device,
  - a plurality of data lines connected to the switching devices for providing pixel data thereto, and
  - a plurality of scanning lines for applying scanning signals to control the switching devices;
- a timing controller receiving external control signals and controlling a timing of scanning signals;
- a frequency detector detecting a frequency of at least one of the external control signals;
- a voltage compensator receiving the detected frequency and generating therefrom a compensation voltage control signal; and
- a voltage converter receiving the compensation voltage control signal and a reference voltage for driving the scanning lines of the LCD panel and in response thereto generating a compensated driving voltage for driving the scanning lines of the LCD panel.
- 8. The LCD device of claim 7, wherein the compensated driving voltage includes a high voltage level of the scanning signals.
  - 9. The LCD device of claim 7, wherein the compensated driving voltage includes a common voltage level of the scanning lines.
  - 10. The LCD device of claim 7, wherein the compensated driving voltage includes a high voltage level and a common voltage level of the scanning lines.

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and

- 11. The LCD device of claim 7, wherein the frequency detector directly detects the frequency of the external control signals applied to the timing controller.
- 12. The LCD device of claim 7, wherein the frequency detector detects a frequency of the control signals by detecting a corresponding frequency of an output signal of the timing controller.
  - 13. A method of driving a liquid crystal display device comprising an LCD panel including a plurality of pixels arranged in a matrix, each pixel having a corresponding switching device, a plurality of data lines connected to the switching devices for providing pixel data thereto and a plurality of scanning lines for applying scanning signals to control the switching devices, the method comprising:

receiving external control signals for controlling a timing of scanning signals; detecting a frequency of at least one of the external control signals; generating a compensation voltage control signal according to the detected frequency;

employing the compensation voltage control signal to generate a compensated driving voltage for driving the scanning lines of the LCD panel.

- 14. The method of claim 13, wherein the compensated driving voltage includes a high voltage level of the scanning signals.
- 15. The method of claim 13, wherein the compensated driving voltage includes a common voltage level of the scanning lines.
- 16. The method of claim 13, wherein the compensated driving voltage includes a high voltage level and a common voltage level of the scanning lines.
- 17. The method of claim 13, wherein employing the compensation voltage control signal to generate a compensated driving voltage for driving the scanning lines of the LCD panel comprises one of raising or lowering a high voltage level of the scanning signals.

- 18. The method of claim 13, wherein employing the compensation voltage control signal to generate a compensated driving voltage for driving the scanning lines of the LCD panel comprises one of raising or lowering a common voltage level of the scanning signals.
- 19. The method of claim 13, wherein employing the compensation voltage control signal to generate a compensated driving voltage for driving the scanning lines of the LCD panel comprises:
  - one of raising or lowering a high voltage level of the scanning signals; and one of raising or lowering a common voltage level of the scanning signals.